FOR MYSORE STATE

Public (C.D. Audit) (1953) Department.

MS SERIES.

G.O.MK NO. 2193

Dated 17-8-1953

passed
by
Superintendent.

G.O. at P 3 cf.

[Despatch Abstract.]

Community projects - South Kanara Area - Block II - communications - construction of a foot bridge at Punjaje in S.No. 96/1 of Kuthloor village - Karkal Taluk - Estimate - Sanctioned.

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Community projects - South Kanara Area - Block II - Communications - Construction of a foot bridge at Punjale in S.No. 96/1 of Kuthloor Village - Karkal Taluk - Estimate - Sanctioned.

23715

Prof.C.No.1661/53-P: Project Executive Office, S.Kanara, Mangalore, d/- 6th August 1953.

*****

From

Sri G.Simhadri, B.A.,
Project Executive Officer,
Mangalore.

To

The Director of Community Projects and Ex-Officio Secretary to Govt.,
Fort St.George, Madras 9.

.....

Sir,

SUB: COMMUNITY PROJECTS - South Kanara - Communications - Block II - Construction of a foot bridge at Poojaje in Kuthloor village - Estimate - Sanction - Requested.

PUNJATE according to Telugu map.

*****

I submit herewith an estimate in duplicate with site plan etc., for the construction of a foot bridge across the Poojaje stream in S.No.96/1 of Kuthloor village. The particulars required are furnished below:

1)	Block No.	.....	II.
2)	Name of work.	.....	Construction of a foot bridge across the Poojaje stream in S.No.96/1 of Kuthloor village.
3)	Whether the work is in the approved list.	.....	Yes.
4)	Cost of work.	.....	Rs. 2,300/-
5)	Peoples' contribution.	.....	The Panchayat Board, Naravi has resolved to contribute 25% of the cost which come to Rs. 575/-
6)	Expenditure to be borne by the Community Project.		Rs. 1,725/-

7) Remarks:

The proposal is to construct a foot bridge across the Poojaje stream in S.No.96/1 of Kuthloor village in Block II. The stream flows right through the middle of the village. The villagers living to the east of it have to cross the stream to go to Naravi which is the nearest marketing centre. The estimated cost of the work is Rs. 2,300/- The provision made in the estimate is explained by the Assistant Engineer in his report enclosed to the estimate. The Panchayat Board, Naravi has resolved to contribute 25% of the cost which works out to Rs. 575/- The balance of Rs. 1,725/- has to be borne by the Community Project. The work is included in the overall programme and necessary provision has been made for the expenditure. The estimate may kindly be sanctioned for Rs. 1,725/-

PROJECT EXECUTIVE OFFICER.

Enclosure: Estimate in duplicate.

T/7.8.

Pub (CP Audit) Dept

(C No 23715/53)

G.O. Ms. 2193 dated 17-8-53

Abstract:- Community Projects. South Kanara Area. Block II. Communications. Construction of a foot bridge at Punjaje in S. No 96/1 of Kuthloor Village - Karkal Taluk - Estimate - Sanctioned

Read:- From the PEO. Mangalore ref. C No 1661/53-B. dated 6-8-53

Order:-

Sanction is accorded to an expenditure not exceeding Rs 1725/- (Rupees One Thousand Seven hundred and twenty five only) being three fourths of the estimated cost of Rs 2300 for the Construction of a foot-bridge at Punjaje in S.No 96/1 of Kuthloor Village, Karkal Taluk. The balance of Rs 575 required to complete the work should be met by Contribution from the Panchayat Board, Naravi, representing the beneficiaries. This sanction is issued against the provision in item II.H. of the project estimates approved by the C.P.A in their letter No CPA 33/5/52 dt. 31.3.53.

2. The expenditure should be debited to "63B Community Development Projects. h- Civil works - Communications, Works."

3. The PEO. Mangalore should get the work executed according to the plan and estimate herewith returned approved and submit a copy of the Completion Report to Govt. in due course

12.8.53

17/8/53

(By regd. post)

To
The PEO. Mangalore (with enclosures)
The Ag. Madras.
The Secy. CPA. Rashtrapati Bhavan, New Delhi.
The Collector, Malabar South Kanara
Sri A Balakrishnan, BABL, IAAS (Ag. Madras)
The Dy. Legal Adviser & Legal Counsel
The A.G. Madras. i.
Pub (CP. Accts) Dept
Pub (CP. Tech.) Dept
SF - 2
Spare 1

Pl. issue for 17/8

pl cf

Issued (w c by R.A. for 18th this only) 20/8/53

Pb. 4 months.

entered in C Bs: as item no. 194

List of Mechanical Engineering

Reading of dial gauge when 3/8 dia. mild steel bar is placed with centre at 3/8" from fixed end — 2.5 mm

II. Comment:

[illegible] = 63.6 kN

[illegible] = 91.6 mm

[illegible] 91.6 × 5/5 = 7[illegible]

[illegible] (3 hours 6 [illegible]

for [illegible]

SO No. 1

Report to accompany the estimate for constructing a foot bridge across Poonjaje Thodu in Kuthalur village in Karkal Taluk.

Estimate Rs. 2,30?/-

This estimate provides for the construction of a foot bridge across Poonjaje Thodu. The average width of this stream is about 3? feet. Hence a foot bridge of 3 spans of 13 feet each with two central piers.

The soil met with is hard gravel mixed with pebbles etc. and hence it is proposed to take the foundation about 3 to 4 feet under the present bed level for the stream, and about seven feet below ground level for the piers as shown in the plan enclosed.

Concrete broken stones 1½" size in cement mortar 1:4:8 will be provided for the foundation and the piers and abutments will be of rubble masonry in cement mortar 1:5.

The flooring for the foot bridge will be of wood over wooden beams with necessary hand rails as shown in the plan.

Rough stone pitching is provided for the revetments on the side.

Tarring is provided for the exposed wood work.

Lump sum provision has also been made for baling out water as there will water at the foundation while laying concrete. Provision is also made for holding on bolts etc. and other unforseen items.

The necessity for the foot bridge will be explained by the Asst. Project Officer, Karkal.

ASST. ENGINEER, C.I.,
Mangalore.

Report to accompany the estimate for construction of a foot bridge across pungaya Tobu in Kuttalam village in Kartikal Taluk. Amount of estimate Rs 2300.

The necessity for the construction of foot-bridge is explained in the proposal. The bridge is to be constructed at the ford at the head level is 37ft and at the top is 8½ ft. It is now proposed to construct the bridge of [illegible] and the top of the pier and abutments are to be in [illegible] and rest in masonry in cement mortar 2½:1 and the level of the [illegible] 2½ feet below the level of the [illegible] [illegible] will be constructed [illegible] [illegible] for the piers and abutments [illegible] [illegible] [illegible]

calculation

(1) Design of deck plank

Clear span 3'-6"

Dead wt of plank = $3\frac{1}{2} \times 1 \times \frac{1}{6} \times 50$ = 29 lb

Add for curb = 6 lb

Live load @ 80 lb/ft² = $3\frac{1}{2} \times 1 \times 80$ = 280 lb

Total load = 315 lb or say 320 lb

Stiffness formula:

w = 150 lb/in

$d = \sqrt[3]{\frac{320 \times \frac{1}{2} \times 12^2}{150 \times 12}} = 2.2$

$a = \sqrt[3]{2.2} = 1.3$" Hence use 2" thick

- two planks adopted on account safe.

(2) Beam - Clear span 15'0

wt of deck = $13'0" \times 5'0" \times \frac{1}{6} \times 50$ = 542

dead wt of beam = $13 \times \frac{1}{2} \times \frac{3}{4} \times 50 \times 2$ = 428

Add for curb, railing & long planks = 270

Live load = $13 \times 3\frac{1}{2} \times 80$ = 3640

5180 lb

Total concentrated load on beam = 5200 lb

= 2600 kg.

Stiffness formula ... (2)

$$d^3 = \frac{2600 \times 13 \times 13}{150 \times 6''} = 488$$

$d = \sqrt[3]{488} = 7.872''$ and hence

9" depth adopted is quite safe.

III Abutments -

Load of the decking coming over abutment = 2600 lbs.

Wt of masonry $\frac{2+2\frac{3}{4}}{2} \times 7 \times 9\frac{1}{2} \times 150 = 24900$ lbs.

Concrete $1 \times 9 \times 5' 9'' \times 1'0 \times 120 = 6240$ lbs.

Total load 33740 lbs.

Bearing area $9 \times 5'.9'' = 51.75$ sq ft.

Load coming over 150 sq ft of bearing area $= \frac{33740}{57.75} = 652$ lbs.

against 1.5 to 2 tons on hard soil.

R. Subramanya Shetty
Executive Engineer
Kannur
2/6/13

DETAILED ESTIMATE.

421,104—17-11-32. C.F. 150 (1).

District South Kanara — Taluk Karkal

Village and Survey Kuthaluru — Date and cost of original construction

Name and number of work Constg a foot bridge across pumpaya stream in Kuthaluru village — Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
I. Earth work excavation for foundations in all soils except rock requiring blasting.						
abutments	1×2	9'-0	5'-9"	@ 6'-0	624	
piers	1×2	11'-0	4'-0	@ 3'-0	264	
Add for extras					112	
					1000	1000 cft
2) Concrete hand broken stone 1½" size in Cement mortar 1:4:8.						
under abutments	1×2	9'-0	5'-9"	1'-0	104	
under piers	1×2	11'-0	4'-0	1'-0	88	
					192 or	200 cft
3) Random rubble masonry in C.M. 1:5						
abutments	1×2	1'-0	5'-9"+4'-0	4'-3"	372 cft	
piers	1×2	11'-0	2'-3"	4'-3"	262 cft	
Cut stone	4×2	2/7 × 2×2 × 1/2		4'-2"	58 cft	
steps on either side of pier	1×2	3'-6"	1'-2"	0'-9"	42	
2nd step	1×2	11'-6"	1'-4"	0'-9"	39	
3rd step	1×2	10'-0"	1'-0"	0'-9"	37	
4th step	1×2	8'-6"	2'-6"	0'-9"	34	
5th step	1×2	7'-0"	2'-10"	0'-9"	36	
6th step	1×2	5'-0"	3'-0"	0'-9"	23	
Add for extras					52	
					950 cft	950 cft.
(4) Rough stone dry packing for aprons and wearing for basin on either side of pier & abutments	2×2	11'-6"	6'-0"	1'-0"	200 cft	200 cft
(5) Country wood wrought and put up in Cement steps.						
Beam	3×2	5'-0"	0'-6"	0'-5"	33.75 cft	35 cft.
6) Country wood wrought and put up in Cement steps.						
planks	1	4 slabs	5'-0"	0'-2"	37.5 cft	
curb	1×2	45'-0"	0'-3"	0'-3"	5.6	
Hand rails	1×2	45'-0"	0'-3"	0'-3"	5.6	
Central rails	1×2	45'-0"	0'-2"	0'-3"	3.8	
Posts	2×10	2'-6"	0'-3"	0'-3"	3.1	
Struts	2×10	2'-6"	0'-3"	0'-3"	3.1	
Add for large planks	2×10	1'-0"	1'-0"	0'-2"	3.3	
Add for extras					3.9	
				Total	65.00	

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
Tarring with hot Coal tar two coats.						
Beams —	3×2	15'-0"	2'-6"		225 sq/ft	
planks —	1	45'-0	10'-4"		465	
posts —	2×10	2'-6"	1'-0		50	
Shields —	2×10	2'-6"	1'-0		50	
cranks —	1×2	45'-0	1'-0		90	
Long plank	2×1	11'-0"	2'-6"		47	
Hand rails —	1×2	45'-0	1'-0		90	
Central rails	1×2	45'-0	0'-10"		75	
Add for extras					208	
				Total	1300	1300 Sq ft
(8) Supplying and fixing in position 3/4 dia 6'-2" long holding down bolts (for fixing in the masonry plate etc complete					12 Nos	12 Nos
(9) Baling out water during execution of [illegible]					1 L.S.	1 L.S.
(10) Extra over for excess lifts in the estimate					L.S.	L.S.
(11) P.S. and Contingencies					L.S.	L.S.

Sd/- Subbarayan. Chief
Supdg Engr E Range
2/8/13

Sd/- D. Ceasar
8/7/13
AE CP

P.W.D. V-39—17 205—20-1-53.

Data sheet to accompany the estimate for _____

Quantity.	Description of wor .	Rate.	Per.	Amount.	Total.
	b) Rough stone dry packing for aprons and revetments:	RS. A. P.		RS. A. P.	
110 cbm	Rough Stone Cost	16 0 0	100 cu	17 9 7	
110 cbm	Stone lead 2 F 3 lead	6 14 0	100 cu	7 9 0	
1 No	Wooden ———	3 0 0	each	3 0 0	
3 Nos	Man Mazdoor	1 8 0	"	4 8 0	
2 Nos	Woman Mazdoor	0 12 0	"	1 8 0	
Ls	Sundries ———	— — —		0 5 5	
		Total		34 8 0	34 8/0
	(c) Best Country wood brought and put up in Large Scantlings:				
1 cbm	Country wood S.9 47A.	7 4 0	cbm	7 4 0	
½ No	Carpenter ———	3 6 0	each	1 11 0	
1½ No	Man Mazdoor	1 8 0	"	1 4 0	
Ls	Sundries such as nails screws etc	—	Ls	0 1 0	10/8
		Total		10 8 0	11 0
	(d) Best Country wood brought and put up in small scantlings				
1 cbm	Country wood S.9 47A	7 0 0	cbm	7 0 0	
¼ No	Carpenter ———	3 6 0	each	1 11 0	
¼ No	Man Mazdoor	1 8 0	"	0 6 0	
Ls	Sundries nails screws etc	—	Ls	0 3 0	9-4-0
		Total		9 4 0	9 12/0
	(e) Tarring with best Coal Tar two Coats 100 Sq M				
8½ Sq M	Coal tar ———	0 4 0	Ltr	2 2 0	
1½ No	Man Mazdoor	1 8 0	each	2 4 0	4/8
Ls	Sundries ———	— — —		0 2 0	
		Total		4 12 0	12
				4 8	

Lead Statement
Sand = 2 F 3rd lead
Cement: 34 M.R. Mangalore
Stone, Broken Stone — 3 F 3rd lead.

Certified that the lead and other information provided in the data are correct to the best of my knowledge and belief.

S R Subbarao Asst Engr Chief
Engr's Note
Bombay
27/6/53

P.W.D. V-39—1,000—20-1-53.

Data sheet to accompany the estimate for construction of foot bridge across panyaija Toto in Kintaban village.

Quantity	Description of wor.	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A	P.	Total.
1000 cft.	I Earth work excavation for foundations in all soils except rock requiring blasting SS 2015	18	14	0	1000 cft	18	14	0	18 14 0
	2) Cement mortar 1:4								
100 cft	Sand cost SS 360	2	8	0	100 cft	2	8	0	
25 cft	Cement cost.	87	8	0	25 "	87	8	0	
100 cft	Sand lead 25 Fm loss	5	9	0	100 cft	5	9	0	
25 cft	Cement lead 39 Fm	93	12	6	100 "	23	7	1	
100 cft	Mixing mortar.	4	8	0	100 cft	4	8	0	
LS.	Sundries					0	2	11	
		Total				123	12	0	123 12 0
	(3) Cement mortar 1:5								
100 cft	Sand cost	2	8	0	100 cft	2	8	0	
20 cft	Cement cost	87	0	0	25 "	70	0	0	
100 cft	Sand lead 25 Fm	5	9	0	100 cft	5	9	0	
20 cft	Cement lead 25 Fm	93	12	6	100 cft	18	12	1	
100 cft	Mixing mortar	4	8	0	100 cft	4	8	0	
LS.	Sundries					0	2	11	
		Total				101	8	0	101 8 0
	(4) Concrete hand broken stone 1½ B.S.S gauge in 1:4:8								
100 cft	Broken stone	23	0	0	100 cft	23	0	0	
100 cft	Broken stone lead 2 Fm lead	6	14	0	100 cft	6	14	0	
52 cft	Cement mortar 1:4	123	12	0	100 cft	61	14	0	
½ No	Mason 2nd class	2	12	0	each	1	6	0	
5 Nos	Man mazadoors	1	5	0	"	7	8	0	
4 Nos	Woman mazadoors	0	12	0	"	3	0	0	
LS.	Sundries					0	2	0	
		Total				103	12	0	103 12 0
	5) Random rubble masonry in C.M. 1:5								
110 cft	Rough stone	16	0	0	100 cft	16	9	7	
110 cft	Stone lead 2 Fm lead	6	14	0	100 cft	7	9	0	
34 cft	Cement mortar 1:5	101	8	0	100 "	34	8	1	
5 Nos	Masons 2nd class	2	12	0	each	13	12	0	
4 Nos	Man mazadoors	1	8	0	"	6	0	0	
4 Nos	Woman mazadoors	0	12	0	"	5	6	0	
LS.	Sundries					0	1	4	
		Total				82	8	0	82 8 0

8/7/53

P.T.O

Abstract Estimate.

C.P. 150. (2).

Quantity. (1).	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. (4) Rs.	A.	P.	Per (5)	Total. (6) Rs.	A.	P.	Amount. (7) Rs.	A.	P.
1000 Cft	(1) Earth work excavation for foundations in all soil except rock requiring blasting		1 8	14	0	1000 Cft	19	0	0			19
200 Cft	(2) Concrete hand beaten stone 1½" size in C.M 1:4:8		1 0 3	12	0	100 Cft	208	0	0			208
950 Cft	(3) Random rubble masonry in Cement mortar 1:5		82	8	0	100 Cft	785	0	0			785
200 Cft	(4) Rough stone dry pitching for inverts and aprons		34	8	0	100 Cft	69	0	0			69
3.5 Cft	(5) Counting wood wrought and put up large scantlings		10	8		Cft	368	-	-			368
1500	(6) Counting wood wrought and put up small scantlings		9	9			607	-	-			601
1300 sq	(7) Tarring with mixture consisting of coal tar and creosote		4	8		100 Sqft	59	-	-			59
12 Nos	(8) Supplying and fixing in position holdfasts consisting of bolts 3/4" diameter 2'-6" long for fixing with necessary plates etc complete						40	-	-			40
8	(9) Baling out water during execution						20	-	-			20
5	(10) Other unforeseen items						25	-	-			25
5	(11) P.S and Contingencies						106	-	-			106
	Supervision charges at 5 per cent.						2385	-	-			2385

Grand total, Estimate — Rs. 2385/-

Divisional officer (or other countersigning officer to be named).

L. A. Carlow
8/7/13
AE C

Sanctioned for 19 –19 .

Signature and designation of the officer submitting this estimate.

R Subbarayan Chief
Surveyor No 2
2-8-13.

Collector or other sanctioning officer (to be named).

Tahsildar or other officer (to be named).

18

Specification.

C.F. 189 (2)—342,006—24-10-51.

Estimated cost Rs 2300/-
Amount of Contribution Rs 575/- at 25%
Amount of Sanction Rs 1725/-

District South Kanara

Taluk Karkal

Village No. Kuthaulur

Name of Work No. Construction of a foot bridge across Punjaja T. Dig in Kuthaulur village.

ESTIMATE ABSTRACT.

17

Budget head

Main head

Sub-head

Sanctioned for Rs 1725/-
Rupees One Thousand seven hundred and twenty five only)

D/C Ees 17/8/53
for D.C.P.
12-8-53

E 1268/53

C 138/53

Amount of estimate Rs ~~2300/-~~

Sanction number and date

To be carried out by C P

Pub (C.P. Awrk) Dept

(C No 2371S/53)

Sub:- Community Projects - South Kanara Area - Block II Communications - Construction of a foot-bridge at Punjaje in RS No 96/1 of Kuttaloor Village - Karkal taluk Estimate.

pl cf.

Ref:- From the PEO. Mangalore - ref: C No 1661/53-B dated 6-8-53

Please see the letter from the PEO. Mangalore at pl cf. The PEO requests sanction to an estimate for Rs 2300, enclosed thereon. This is for the Construction of a foot bridge Across the Stream running through the village of Punjaje in ~~the Karkal Taluk~~ Kuttaloor Village of Karkal Taluk. The estimate has been checked and is in order. The proposal will be to Construct abutments and 2 piers of Random Rubble in Cement mortar with the decking of wood. The bridge will be in 3 Spans of 13ft each. The villagers of Punjaje have to Cross the Stream to go to Naravi which is the marketing Centre. This Stream also cuts them off from the Main road.

The work is reported to have been included in the overall programme and is approved by the project Executive Committee. The Panchayat board of Naravi are reported to have resolved to Contribute a 25% of the Cost. The Sanction required is for 2300 - 1/4 of 2300 or Rs 1725/-

The approved Project Estimate for the area, provides for the Construction of 33 foot-bridges at a total expenditure of Rs 57000/-. So far 23 foot bridges have been sanctioned involving an expenditure of Rs 45,564/- only. The work may therefore be sanctioned

A draft order is put up for approval. The estimate may be Countersigned

put below

12.8.53 7-8-53 13/8/53

Why should we sanction this work? Is this included in the approved Overall Programme? If so, is it

The P.E.O. competent to Sanction it himself

Ue
14-8-53

2371 5/53

All AEs in CP Areas are empowered ~~to~~ to give technical Sanction we will have to give both technical & financial Sanction

C
14/8/53 A.S.

I do not follow. The technical Sanction cannot be given by us either if it is above the powers of the A.E., the P.E.O. will have to go to the E.E. or SE. Please speak

Ue
14/8/53

Discussed with A & S.O. Estimates approved as a special case. But it may be pointed out to the P.E.O. that he should use the powers already delegated to him now that the overall programme has been approved. A

Ue
17/8/53

Issued as Govt MS No. 2193. Public (CP.) dt 17-8-53

A The P.E.O. Mangalore has been told in Memo No. 24158 Public (CP. Auth) 53-1 dt 20.8.53 (1) that he can use the powers delegated to him. No further sanction is necessary

19/8/53 Sd/- 19.8.53

Sd/-